

TECHNICAL DATA SHEET

Recombinant Human Neurtin (Carrier-free)

Catalog Number: 21-7115

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

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Recombinant Human Neurtin (Carrier-free)

DESCRIPTION

Neurtin (NRN1, CPG15) is a highly conserved neurotrophic factor that promotes neurite outgrowth and branching, indicating its role in neuritogenesis. Expression is induced by synaptic activity, as well as by neurotrophins including BDNF, NGF and NT3. In the developing nervous system, Neurtin is expressed in postmitotic-differentiating neurons. In the adult, it is involved in regulating synaptic plasticity.

MOLECULAR MASS

Recombinant Human Neurtin is a homodimer that consists of two 9.72 kDa polypeptide monomers, made up of 88 amino acids each.

AMINO ACID SEQUENCE

AGKCDAVFKG FSDCLLKLGD SMANYPQGLD DKTNIKTVCT YWEDFHSTV TALTDCEGA KDMWDKLRKE SKNLNIQGS
FELCGSGN

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1 EU/μg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

Rat

BIOACTIVITY

Determined by a cell proliferation using rat C6 cells. The ED₅₀ for this effect is 20.0-30.0 ng/ml.

RESEARCH AREAS

Neurobiology

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Naeve GS, Ramakrishnan M, Kramer R, Hevroni D, Citri Y and Theill LE. 1997. Proc Natl Acad Sci. 94(6): 2648-2653. Zhou S and Zhou J. 2014. Curr Med Chem. 21(10): 1212-1219. Han Y, Chen X, Shi F, Li S, Huang J, Xie M, Hu L, Hoidal JR and Xu P. 2007. J Neurotrauma. 24(4): 722-731.

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